

ER DEPARTMENT DATA ASSESSMENT
SUMMARY REPORT FORM

Batch No. 9012C045 (C012133, C012134, C012135,
C012136) Site Groundwater Monitoring

Laboratory IT - Cerritos No. of Samples/Matrix 16/Water

SOW # 10/86 (Rev. 2/88) Reviewer Org. QuantaLex, Inc.

Sample Numbers GW00706IT, GW00774IT, GW00778IT, GW00788IT, GW00789IT, SW00612WC,
SW00626WC, SW00627WC, SW00628WC, SW00645WC, SW00646WC, SW00648WC, SW00655WC,
SW80074WC, SW80075WC, SW80076WC

Data Assessment Summary

	VOA	Comments
1. Holding Times	<u>A</u>	<u>Action Item 1</u>
2. GC/MS Tune/Instr. Perf.	<u>V</u>	
3. Calibrations	<u>X</u>	<u>Comment 1</u>
4. Blanks	<u>A</u>	<u>Action Item 2</u>
5. Surrogates	<u>V</u>	
6. Matrix Spike/Dup.	<u>V</u>	
7. Other QC	<u>A</u>	<u>Action Items 3,4; Comment 2</u>
8. Internal Standards	<u>V</u>	
9. Compound Identification	<u>V</u>	
10. System Performance	<u>V</u>	
11. Overall Assessment	<u>A</u>	<u>Data acceptable with qualifications.</u>

V = Data had no problems.

A = Data acceptable but qualified due to problems.

R = Data rejected.

X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be acceptable with qualifications. Acceptable,
qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged.
(Refer to attached Data Summary Tables.)

Action Items: 1) The results for aromatic compounds in samples GW00774IT, SW00648WC, SW80074WC, and SW80075WC are estimated (J) because holding times exceeded seven days.

2) As a result of method blank contamination, the positive results for Methylene Chloride in samples GW00706IT, SW00612WC, SW00626WC, SW00627WC, SW00628WC, SW00645WC, SW00646WC, SW00648WC, SW00655WC, SW80074WC, SW80075WC, and SW80076WC are reported as undetected and estimated (J) according to the Functional Guidelines criteria (10x rule).

3) Calibration was not performed for the cis isomer of 1,2-Dichloroethene. Since a relative response factor (RRF) was not generated and the retention time (RT) was not verifiable, the exact concentration could not be determined and the positive result for this compound in samples SW00648WC and SW80075WC are estimated (J).

4) The cis isomer of 1,2-Dichloroethene was also found in sample SW00646WC. However the compound was quantitated as a TIC (i.e. ratio of peak height with the nearest internal standard and the response factor for 1,2-Dichloroethene (total) was not used). Therefore the exact value is in question and the result is estimated (J). (Resubmittal was requested, however the data were not provided).

Comments: 1) Compounds with %Ds exceeding 25% in the continuing calibrations were undetected in the associated samples. Thus no action is taken.

2) The sample numbers SW90237WC, SW90238WC, SW90236WC, and SW90228WC were listed on the chain-of-custody records for VOA analysis. However these samples were not included with this batch.

Note: Data Summary Tables are attached.

for Nesa Gey
Validator Signature

6/3/91
Date

William T. Fenn
Reviewer Signature

5/31/91
Date

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE / TIME MM/DD / HH	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPLE PREP DATE / TIME MM/DD / HH	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYT RESULT	RSLT QIA IFE	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	REASONS 1 2 3 4	QI UNIT OF MEASU	QIA PER
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 71-55-6	5	5	U		UG/L		1,1,1-TRICHLOROETHANE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 79-34-5	5	5	U		UG/L		1,1,2-TRICHLOROETHANE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 79-34-5	5	5	U		UG/L		1,1,2-TRICHLOROETHANE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 75-34-3	5	5	U		UG/L		1,1-DICHLOROETHANE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 75-34-3	5	5	U		UG/L		1,1-DICHLOROETHANE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 107-06-2	5	5	U		UG/L		1,2-DICHLOROETHANE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 540-59-0	5	5	U		UG/L		1,2-DICHLOROETHANE (TOTAL)	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 78-87-5	5	5	U		UG/L		1,2-DICHLOROPROPANE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 78-87-5	10	10	U		UG/L		2-HEXANONE	10			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 591-78-6	10	10	U		UG/L		4-METHYL-2-PENTANONE	10			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 67-64-1	10	10	U		UG/L		ACETONE	10			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 71-43-2	5	5	U		UG/L		BENZINE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 73-27-4	5	5	U		UG/L		BROMODICHLOROMETHANE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 75-25-2	5	5	U		UG/L		BROMOFORM	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 75-25-2	5	5	U		UG/L		BROMOMETHANE	10			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 75-15-0	5	5	U		UG/L		CARBON DISULFIDE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 56-23-5	5	5	U		UG/L		CARBON TETRACHLORIDE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 106-90-7	5	5	U		UG/L		CHLOROBENZENE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 75-00-3	10	10	U		UG/L		CHLOROETHANE	10			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 67-66-3	1	1	J		UG/L		CHLOROPORM	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 74-87-3	10	10	U		UG/L		CHLOROMETHANE	10			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 10061-01-5	5	5	U		UG/L		CIS-1,3-DICHLOROPROPENE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 134-48-1	5	5	U		UG/L		DIBROMOCHLOROMETHANE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 100-41-4	5	5	U		UG/L		ETHYLBENZENE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 75-09-2	2	2	BU		UG/L		METHYLENE CHLORIDE	5		49	5 UGL U
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 100-42-5	5	5	U		UG/L		STYRENE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 127-18-4	5	5	U		UG/L		TETRACHLOROETHENE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 106-88-3	5	5	U		UG/L		TOLUENE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 10061-02-6	5	5	U		UG/L		TRANS-1,3-DICHLOROPROPENE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 79-01-6	2	2	J		UG/L		TRICHLOROETHENE	5			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 106-05-4	10	10	U		UG/L		VINYL ACETATE	10			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 75-01-4	10	10	U		UG/L		VINYL CHLORIDE	10			
SW00655WC	120690 1310	C012035	WATER	C01203501A	ITLC	12/12/90	C012134VBLK2	VOCCLPTCL	TR 1330-20-7	5	5	U		UG/L		XYLENES (TOTAL)	5			

EM DEPARTMENT DATA ASSESSMENT
SUMMARY REPORT FORM

File No. 9012T650 Site Surface Water Monitoring
Laboratory Teledyne Isotopes No. of Samples/Matrix 20/Water
QLI No. R00377 Reviewer Org. QuantaLex, Inc.
Sample Numbers SW00571WC, SW00604WC, SW00605WC, SW00607WC, SW00578WC,
SW00648WC, SW80074WC, SW80075WC, SW00612WC, SW00636WC, SW00638WC, SW00645WC,
SW00646WC, SW00653WC, SW00654WC, SW80076WC, SW80077WC, SW00655WC, SW00573WC,
SW00626WC

Data Assessment Summary

Gross $\alpha + \beta$ Analysis
by Gas Proportional Counters

	Alpha	Beta	Comments
1. Holding Times	<u>V</u>	<u>V</u>	
2. Initial Calibrations	<u>V</u>	<u>V</u>	
3. Continuing Calibrations	<u>V</u>	<u>V</u>	
4. Laboratory Blanks	<u>V</u>	<u>V</u>	
5. Lab Replicates	<u>X</u>	<u>X</u>	<u>See Action Item 1</u>
6. Lab Control Samples	<u>V</u>	<u>V</u>	<u>See Comment 1</u>
7. Size of Aliquot	<u>V</u>	<u>V</u>	<u>See Comment 2</u>
8. Self-Absorption Factors	<u>V</u>	<u>V</u>	
9. Sample Calculations	<u>V</u>	<u>V</u>	<u>See Comment 3</u>
10. Overall Assessment	<u>V</u>	<u>V</u>	<u>See Comment 4</u>

V = Data had no problems.

A = Data acceptable but qualified due to problems.

R = Data rejected.

X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be valid. (Refer to attached Data Summary Tables).

Action Items: 1) Lab Replicates: No lab replicates were analyzed with this Sample Delivery Group (SDG).

however this did not affect the overall quality of the data; thus the results were flagged X.

Comments: 1) Lab Control Samples (LCSs): The relative percent error for the Gross alpha LCS was 18.7%.

The relative percent error for the Gross beta LCS was 7.2%.

2) Minimum Detectable Activities (MDAs): The MDAs for samples SW00578WC, SW00638WC,

SW00654WC, SW80077WC, and SW00655WC exceeded the Required Detection Limits (RDLs) for the Gross alpha and Gross beta analyses due to heavy dissolved solids in the sample matrices.

3) Sample Calculations: The laboratory reported estimated values on the Data Summary Report Table for those samples with activities less than the MDA. The reviewer reported the laboratory's actual values in the OLI Result column of the Data Summary Report Table.

4) Overall Assessment: The laboratory did not report the MDAs for the Gross alpha and Gross beta analyses. The reviewer calculated the MDAs as follows:

Sample ID	Gross alpha MDA (pCi/L)	Gross beta MDA (pCi/L)
SW80075WC	2.15	2.57
SW00612WC	2.08	2.54
SW00571WC	1.58	2.40
SW00604WC	1.84	2.47
SW00605WC	1.84	2.47
SW00607WC	1.78	2.46
SW00578WC	4.32	5.10
SW00648WC	2.15	2.57
SW80074WC	1.18	2.31
SW00636WC	1.83	2.47
SW00638WC	4.32	5.09
SW00645WC	2.18	2.58
SW00646WC	2.16	2.57
SW00653WC	2.25	2.60
SW00654WC	9.98	12.49
SW80076WC	1.19	2.31
SW80077WC	8.46	9.69
SW00655WC	13.76	15.55
SW00573WC	1.72	2.44
SW00626WC	2.03	2.54
22118 LCS	1.86	2.45
22120 BLK	1.41	2.33

Note: Data Summary Tables are attached.

Validator Signature

Reviewer Signature

Date

Date

Radiochemical Data Completeness
Checklist for Radiometric and Gross α & β Analyses
of Soil and Water by Gas Proportional Counters

- A. Yes Case Narrative
 Yes Abnormalities explained
 Yes Matrix Problems explained
 Yes Instrument problems explained
 Yes Improper collection, storage, preservation, container explained
 Yes Hold times met, explained if not met
- B. Yes Initial and Continuing Calibration Data Package
 Yes Detector ID
 Yes Date and Time calibrated, calibration check, Analyst initials
 Yes Radionuclide Standard Name, NIST certification and expiration
 dates, and DPM value
 Yes Aliquots of standards used
 Yes Raw tapes from counters showing alpha and beta counts
 obtained and count durations for each weight of salt
 Yes Weights of salts
 Yes Efficiencies
 Yes Best fit curve coefficients
 Yes Reliability check source name, NIST certification,
 expiration and DPM activity
 Yes Raw tapes from counters showing alpha and beta counts
 obtained and count durations for reliability checksource
 N/A Efficiency checksource name, NIST certification, expiration,
 and DPM activity
 N/A Raw tapes from counters showing alpha and beta counts
 obtained and count duration for checksource
 Yes Efficiency obtained for checksource
 Yes Results of lab statistical test used to evaluate reliability
 and efficiency checks
 Yes Background counts obtained and count duration for each detector
 Yes Results of lab statistical test used to evaluate the instrument
 background
- C. Yes Reagent Blanks Data Package
 Yes ID of each detector used
 Yes Analyst initials
 Yes Date reagent blanks were analyzed
 Yes ID of samples analyzed with the reagent blanks
 No Type of method blank used, MDA of method
 Yes Volume of aliquot for reagent blanks
- D. No Replicate Sample Data Package
 No ID of each detector used
 No Analyst Initials
 No Date sample and replicates were analyzed
 No Sample IDs, values obtained for sample and replicates
 No Count Duration of sample and replicates
 No Volume of aliquot for sample and replicates
 No Calculated uncertainties and MDAs
- E. Yes Lab Control Samples (LCSs) Data Package

Yes ID of each detector used
Yes Analyst initials
Yes Date LCSs were analyzed
Yes ID of LCS
No Values obtained for LCSs with uncertainty and MDA
Yes True value of LCSs with uncertainty
Yes ID of samples analyzed with the LCSs

- F. Yes Minimum Detectable Activity
Yes Background measurements including: counts and count durations of samples and backgrounds taken during the same weekly time period
Yes Date of analysis
Yes Background CPM
No MDA calculated for both gross alpha and gross beta analysis of the sample
- G. Yes Size of Aliquot in Gross α & β Determination Data Package
Yes Sample ID
Yes Calculated volume of sample to deliver 150mgs solids
Yes Raw data supporting efficiency factor and efficiency factor used
- H. Yes Sample Data Package
Yes Printed report of results for sample, reruns
Yes Raw Data from counter, copies of notebook pages
Yes Manual/Computer calculations
No Sample ID, Detector ID, obtained sample and background counts and count durations observed, aliquot of sample, weight of solids counted, detector efficiency, activities, uncertainties, and MDAs

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/YYYY	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPLE PREP DATE MM/DD/YYYY	SAMPLE ANALYSIS DATE MM/DD/YYYY	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYT RESULT	RSLT QUA FIE	UNIT 2 SIG ERROR	UNIT MEASU PER	RETE TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	REASONS 1 2 3 4	QI UNIT OF MEASU PER
LAB BLANK	12/01/90	45650	WATER	22120	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	1.000	U	0.97 Q	PC/L	2	GR-A	31 99	54 0.65	PC/L
LAB BLANK	12/01/90	45650	WATER	22120	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	2.000	U	1.47 Q	PC/L	4	GR-B	31 99	54 1.04	PC/L
LAB SPIKE	12/01/90	45650	WATER	22118	TELL	01/01/91	01/01/91	1200	DRADS	SP	12587-461	6.100	U	2.000	PC/L	2	GR-A	31 99		
LAB SPIKE	12/01/90	45650	WATER	22078	TELL	01/01/91	01/01/91	1200	DRADS	SP	12587-472	21.000	U	2.000	PC/L	4	GR-B	31 99		
SW00571WC	12/01/90	45650	WATER	22078	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	2.000	U	1.13 Q	PC/L	2	GR-A	v 31 99	54 0.99	PC/L
SW00571WC	12/01/90	45650	WATER	22078	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	4.400	U	1.700	PC/L	4	GR-B	v 31 99		
SW00573WC	12/01/90	45650	WATER	22114	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	2.000	U	1.13 Q	PC/L	2	GR-A	v 31 99	54 0.49	PC/L
SW00573WC	12/01/90	45650	WATER	22114	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	2.000	U	1.38 Q	PC/L	2	GR-B	v 31 99	54 1.97	PC/L
SW00578WC	12/01/90	45650	WATER	22086	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	4.000	U	2.93 Q	PC/L	2	GR-A	v 31 99	54 1.73	PC/L
SW00578WC	12/01/90	45650	WATER	22086	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	11.000	U	4.000	PC/L	4	GR-B	v 31 99	54 1.37	PC/L
SW00604WC	12/01/90	45650	WATER	22080	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	2.000	U	1.35 Q	PC/L	2	GR-A	v 31 99	54 1.02	PC/L
SW00604WC	12/01/90	45650	WATER	22080	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	3.400	U	1.700	PC/L	4	GR-B	v 31 99	54 0.63	PC/L
SW00605WC	12/01/90	45650	WATER	22082	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	2.000	U	1.600	PC/L	2	GR-A	v 31 99	54 1.02	PC/L
SW00605WC	12/01/90	45650	WATER	22084	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	2.800	U	1.600	PC/L	4	GR-B	v 31 99	54 1.79	PC/L
SW00612WC	12/01/90	45650	WATER	22084	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	2.000	U	1.26 Q	PC/L	2	GR-A	v 31 99	54 2.13	PC/L
SW00612WC	12/01/90	45650	WATER	22084	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	2.600	U	1.600	PC/L	4	GR-B	v 31 99	54 0.42	PC/L
SW00626WC	12/01/90	45650	WATER	22094	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	5.600	U	1.800	PC/L	2	GR-A	v 31 99	54 2.07	PC/L
SW00626WC	12/01/90	45650	WATER	22094	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	5.600	U	1.800	PC/L	4	GR-B	v 31 99	54 1.79	PC/L
SW00636WC	12/01/90	45650	WATER	22116	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	3.000	U	1.64 Q	PC/L	2	GR-A	v 31 99	54 2.13	PC/L
SW00636WC	12/01/90	45650	WATER	22116	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	3.000	U	1.64 Q	PC/L	4	GR-B	v 31 99	54 0.42	PC/L
SW00638WC	12/01/90	45650	WATER	22096	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	2.000	U	1.19 Q	PC/L	2	GR-A	v 31 99	54 2.07	PC/L
SW00638WC	12/01/90	45650	WATER	22096	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	2.000	U	1.60 Q	PC/L	4	GR-B	v 31 99	54 2.07	PC/L
SW00645WC	12/01/90	45650	WATER	22098	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	12.000	U	4.000	PC/L	2	GR-A	v 31 99	54 1.79	PC/L
SW00645WC	12/01/90	45650	WATER	22098	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	12.000	U	4.000	PC/L	4	GR-B	v 31 99	54 1.79	PC/L
SW00646WC	12/01/90	45650	WATER	22100	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	2.000	U	1.50 Q	PC/L	2	GR-A	v 31 99	54 1.00	PC/L
SW00646WC	12/01/90	45650	WATER	22100	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	4.100	U	1.800	PC/L	4	GR-B	v 31 99	54 1.00	PC/L
SW00646WC	12/01/90	45650	WATER	22102	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	2.700	U	1.700	PC/L	2	GR-A	v 31 99	54 2.13	PC/L
SW00646WC	12/01/90	45650	WATER	22102	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	4.700	U	1.800	PC/L	4	GR-B	v 31 99	54 0.42	PC/L
SW00648WC	12/01/90	45650	WATER	22088	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	4.200	U	2.000	PC/L	2	GR-A	v 31 99	54 2.07	PC/L
SW00648WC	12/01/90	45650	WATER	22088	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	4.200	U	2.000	PC/L	4	GR-B	v 31 99	54 2.07	PC/L
SW00653WC	12/01/90	45650	WATER	22104	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	2.500	U	1.800	PC/L	2	GR-A	v 31 99	54 1.79	PC/L
SW00653WC	12/01/90	45650	WATER	22104	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	5.800	U	1.800	PC/L	4	GR-B	v 31 99	54 1.79	PC/L
SW00654WC	12/01/90	45650	WATER	22106	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	17.000	U	9.000	PC/L	2	GR-A	v 31 99	54 1.79	PC/L
SW00654WC	12/01/90	45650	WATER	22106	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	43.000	U	10.000	PC/L	4	GR-B	v 31 99	54 1.79	PC/L
SW00654WC	12/01/90	45650	WATER	22112	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-461	47.000	U	15.000	PC/L	2	GR-A	v 31 99	54 1.79	PC/L
SW00655WC	12/01/90	45650	WATER	22112	TELL	01/01/91	01/01/91	1200	DRADS	TR	12587-472	110.0	U	10.000	PC/L	4	GR-B	v 31 99	54 1.79	PC/L
SW80074WC	12/04/90	45650	WATER	22090	TELL	12/14/90	12/19/90	1200	DRADS	TR	12587-461	1.000	U	0.79 Q	PC/L	2	GR-A	v 31 99	54 0.41	PC/L
SW80074WC	12/04/90	45650	WATER	22090	TELL	12/14/90	12/19/90	1200	DRADS	TR	12587-472	2.000	U	1.41 Q	PC/L	4	GR-B	v 31 99	54 0.11	PC/L
SW80075WC	12/04/90	45650	WATER	22092	TELL	12/14/90	12/19/90	1200	DRADS	TR	12587-461	2.800	U	1.800	PC/L	2	GR-A	v 31 99	54 1.79	PC/L
SW80075WC	12/04/90	45650	WATER	22092	TELL	12/14/90	12/19/90	1200	DRADS	TR	12587-472	3.400	U	1.700	PC/L	4	GR-B	v 31 99	54 1.79	PC/L

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/YY	TIME HH:	BATCH NUMBER	SAMPLE MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPLE PREP DATE MM/DD/YY	SAMPLE ANALYSIS DATE MM/DD/YY	TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS	CAS NUMBER	ANALYT RESULT	RSLT QTY	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION UNIT	REASONS V 1 2 3 4	QTY UNIT OF MEASU	
SW80076WC	120690	10:34	45650	WATER	22108	TELI	12/19/90	12/21/90	12:00	22120	DRAUS	TR	12587-46-1	1.000	U	0.67 Q	PC/L		GR-A	2	V 31 99	54	-0.27
SW80076WC	120690	10:34	45650	WATER	22108	TELI	12/19/90	12/21/90	12:00	22120	DRAUS	TR	12587-47-2	2.000	U	1.40 Q	PC/L		GR-B	4	V 31 99	54	-0.04
SW80077WC	120690	12:40	45650	WATER	22110	TELI	01/17/91	01/14/91	12:00	22120	DRAUS	TR	12587-46-1	19.00		8.000	PC/L		GR-A	2	V 31 99 36		
SW80077WC	120690	12:40	45650	WATER	22110	TELI	01/17/91	01/14/91	12:00	22120	DRAUS	TR	12587-47-2	58.00		8.000	PC/L		GR-B	4	V 31 99 36		

TELEDYNE ISOTOPES

REPORT OF ANALYSIS

RUN DATE 03/27/91

WORK ORDER NUMBER

MR PAUL WHITE
EBASCO SERVICES INCORPORATED
143 UNION BOULEVARD
SUITE 1010
LAKEWOOD CO 80228-1824

CUSTOMER P.O. NUMBER

DS-1072 RFEV19

DATE RECEIVED

12/10/90

PAGE 9

DELIVERY DATE
01/12/91

WATER - SURFACE

TELEDYNE SAMPLE NUMBER	CUSTOMER'S IDENTIFICATION	STA NUM	COLLECTION-DATE START DATE	STOP DATE	NUCLIDE	ACTIVITY (PCI/LITER)	NUCL-UNIT-% U/M %	MID-COUNT TIME DATE	VOLUME - UNITS ASH-WGHT-%	LAB.
22109	SW80077WC SW094 100ML		12/06 1242		H-3	1.2 +-0.1 E 03		03/21		5
22110	SW80077WC SW094 PRSVD		12/06 1240		RA-226 GR-A GR-B SR-89 SR-90 CS-137 NP-237 U-234 U-235 U-238 AM-241 PU-239	L.T. 2. E-01 1.9 +-0.8 E 01 5.8 +-0.8 E 01 L.T. 7. E-01 L.T. 8. E-01 L.T. 6. E-01 L.T. 1. E 00 3.5 +-0.3 E 01 9.5 +-4.6 E-01 2.3 +-0.2 E 01 L.T. 5. E 00 L.T. 9. E-01		03/08 01/14 01/14 12/29 12/27 01/11 01/11 01/26 01/26 01/26 02/28 02/10	2 3 HIGH 3 HIGH 3 3 4 4 4 6 6 SPEC 6 SPEC	
22111	SW00655WC SW095 100ML		12/06 1322		H-3	1.8 +-0.2 E 03		03/21		5
22112	SW00655WC SW095 PRSVD		12/06 1320		RA-226 GR-A GR-B SR-89 SR-90 CS-137 NP-237 U-234 U-235 U-238 AM-241 PU-239	L.T. 2. E-01 4.7 +-1.5 E 01 1.1 +-0.1 E 02 L.T. 1. E 00 L.T. 9. E-01 L.T. 6. E-01 L.T. 1. E 00 6.9 +-0.4 E 01 1.9 +-0.6 E 00 4.3 +-0.3 E 01 L.T. 2. E 00 L.T. 6. E-01		03/08 01/14 01/14 12/27 12/27 01/11 01/11 01/17 01/17 01/17 02/04 02/07	2 3 HIGH 3 HIGH 3 3 4 4 6 HIGH 6 6 HIGH 6 SPEC 6 SPEC	

